MAGNETIC RECORDING MEDIA WITH CU-CONTAINING MAGNETIC LAYERS

ABSTRACT OF THE DISCLOSURE

A magnetic recording medium including at least one Cu-containing magnetic recording layer (CuML) comprised of a Cu-containing magnetic alloy material selected from the group consisting of:

- (a) a CoCrPtBCu alloy having a composition represented by the formula $Co_{100-x-y-z-\alpha}Cr_xPt_yB_zCu_\alpha$, wherein $0 < x \le ??$, $0 < y \le 30$, $0 < z \le 24$, $0 < \alpha \le 10$, and $x + z \ge 35$;
 - (b) a CoCrPtBCu alloy having a composition represented by the formula $Co_{100-x-y-z-\alpha}Cr_xPt_yB_zCu_\alpha$, wherein $0 < x \le 30$, $0 < y \le 30$, $0 < z \le 24$, $0 < \alpha \le 10$, and $x + z \ge 35$; and
- 10 (c) a CoCrTaCu alloy having a composition represented by the formula Co_{100-x-y-α}Cr_x Ta_yCu_α, containing less than 30 at. % Cr, up to 8 at. % Ta, and up to 10 at. % Cu.